

*An open forum for collaboration, the SGIP establishes stakeholder requirements, sets priorities, and coordinates development of the standards for Smart Grid interoperability and cyber security.*

## Smart Grid Interoperability Panel (SGIP)

### AN OPEN FORUM FOR INTERNATIONAL COLLABORATION



Many countries have identified the Smart Grid as an important priority that promises many benefits—from energy efficiency and reliability to economic growth and environmental improvements. With so many countries beginning or planning to modernize their electrical grid, we have a unique and important opportunity to collaborate on the development of international standards for Smart Grid interoperability. We believe the Smart Grid Interoperability Panel (SGIP) provides an ideal forum for this international collaboration.

#### TOP TEN SMART GRID FEDERAL STIMULUS INVESTMENTS BY COUNTRY, 2010 (IN U.S. MILLIONS)



Source: Zpryme Research

#### BENEFITS OF INTEROPERABILITY

Interoperability standards are crucial for large infrastructure systems such as the Smart Grid. Standards can help prevent premature obsolescence and enable future upgrades. Standards can also provide backward compatibility, enabling the integration of new equipment with existing systems. In addition, standards can expand product markets and promote vendor competition—reducing costs, accelerating innovation, and increasing consumer choice. Interoperability standards bring these benefits to the consumers and manufacturers in the market that adopts those particular standards—whether that be a national, regional, or global market.

#### ABOUT THE SMART GRID INTEROPERABILITY PANEL

Established in late 2009 by the National Institute of Standards and Technology, the SGIP is a public-private partnership dedicated to the interoperability of Smart Grid devices and systems—from home appliances to transmission substations to wind farms and other bulk power generators. Membership in the SGIP is free and open to all organizations interested in achieving the Smart Grid vision. SGIP members include a wide range of organizations, from utilities to government agencies, from electric vehicle manufacturers to service providers, and from regulators to consumers.



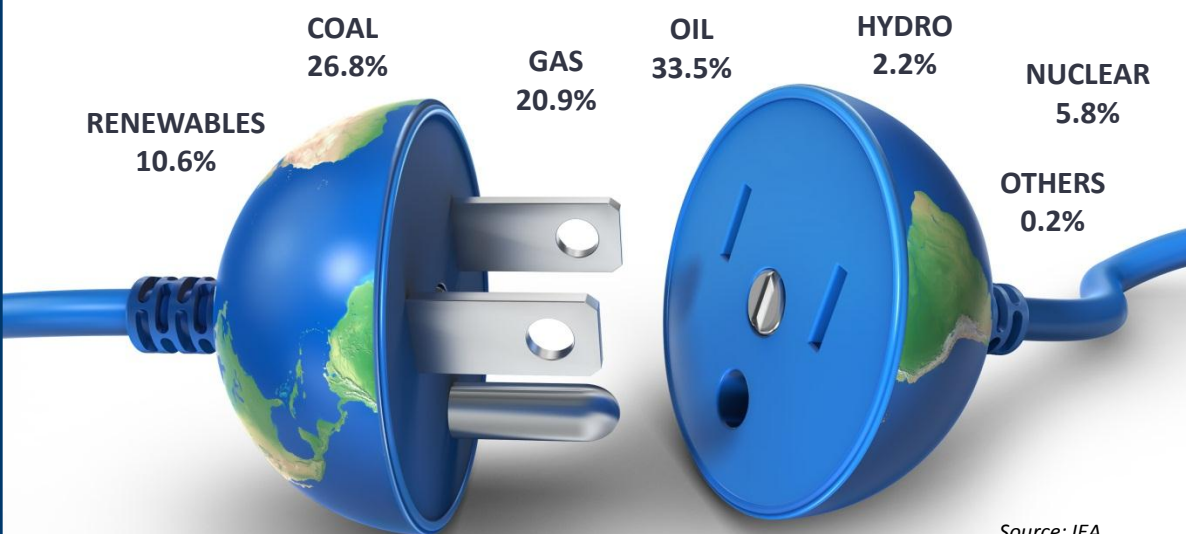
## INTERNATIONAL STANDARDS FOR THE SMART GRID

In order to realize the most benefits for the most people, we believe that international standards should be developed and adopted. International standards can yield very significant benefits. For example, many manufacturers of equipment and systems for the Smart Grid have a global presence, and they will need to address markets around the world. International standards can reduce the needs for customization to meet different national/regional standards, thereby reducing the cost of development and providing savings that can be passed on to consumers. International standards can also promote supplier competition, stimulate product and service innovations, and expand the range of options available for consumers at reduced costs.

## INTERNATIONAL PARTICIPATION IN THE SGIP

We believe that the SGIP can provide the ideal open forum to promote the development and coordination of these international standards. Since its establishment in 2009, the number of international participants in the SGIP has been increasing. However, the current international participants represent just a small percentage of the potential stakeholders in the international Smart Grid ecosystem. With a goal of increasing international participation, the SGIP is expanding its outreach efforts through international meetings and formal collaborations. For example, the SGIP Governing Board has developed a letter of intent (LOI) as a means to formalize collaboration with international entities. Because membership in the SGIP is free and open to all, we encourage your participation.

### TOTAL WORLD ENERGY SUPPLY 2008



Source: IEA



## LEARNING MORE AND GETTING INVOLVED

We welcome your participation. Here are some next steps for getting involved:

Learn more about the SGIP (<http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/SGIP>)

Join the SGIP (<http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/SGIPMembershipInfo>)

Attend SGIP meetings and conferences (many meetings are virtual; others are face-to-face) (<http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/SGIPCalendar>)

If you have questions or would like to receive further information, please contact: [SGIP.Administrator@energex.com](mailto:SGIP.Administrator@energex.com)



SMART GRID INTEROPERABILITY PANEL